

## CLAIMS

1. An authentication and/or rights containing retrievable token such as an IC card comprising at least one physical channel of communication to at least one apparatus and at least two logical channels of communication with said at least one apparatus wherein each logical channel of communication is associated with a different execution environment.

2. A retrievable token as recited in the claim 1 wherein the portable is a Multi Media Memory card.

3. A retrievable token as recited in the claim 1 wherein the apparatus is a mobile communication handset.

4. A retrievable token as recited in the claim 1 wherein the apparatus is a personal computer.

5. A retrievable token as recited in the claim 1 wherein said at least one physical channel of communication uses USB protocol.

6. A retrievable token as recited in the claim 1 wherein said at least one physical channel of communication uses SPI protocol.

7. A retrievable token as recited in the claim 1 wherein said at least one the physical channel of communication uses MMC protocol.

8. A retrievable token as recited in the claim 1 wherein aid at least one physical channel of communication uses a protocol for contactless smart card.

9. A retrievable token as recited in the claim 8 wherein the protocol of communication is defined in the ISO (FCD)15693.

10. A retrievable token as recited in the claim 8 wherein the protocol of communication is defined in the ISO 14443.

11. A retrievable token as recited in claim 1 wherein at least one of the physical channels of communication uses the protocols defined in the TS 102.221 standard.

12. A retrievable token as recited in the claim 1 wherein at least one of the physical channels of communication uses the protocols defined in the ISO7816 standard.

5 13. A retrievable token as recited in the claim 1 wherein said retrievable token includes at least two physical channels and at least one of said physical channels is independent from the other(s).

10 14. A retrievable token as recited in claim 1 wherein said retrievable token comprises at least two applications that can be executed independently in each execution environment, said retrievable token comprising a resource that is shared between said at least two applications.

15 15. The retrievable token as recited in claim 14, wherein it comprises an access condition list (ACL) and said resource is shared by said at least two applications on the basis of said access condition list (ACL).

16 16. A retrievable token as recited in claim 15 for which the resource that can be shared between the applications is a shared file, said access conditions of the access conditions list associating respective applications with respective operations on this file thereby authorizing said respective applications to perform said respective operations on said file.

20 17. A retrievable token as recited in claim 15 wherein the resource that can be shared between applications in the different execution environments is a shared object on which data is written in a "first in first out" (FIFO) manner and wherein access conditions are defined in the access conditions list (ACL) associating respective applications with  
25 respective operations on this file thereby authorizing said respective applications to perform said respective operations on this object.

30 18. A retrievable token as recited claim 15 wherein the retrievable token stores and runs a operating system which is common to said applications in the different execution environments and wherein the resource that can be shared between applications in the different execution environments is a shared function that is implemented by the

common operating system and for which access conditions are defined in the access conditions list (ACLs) which specify respective rights of the applications to invoke said shared function.

5 19. A retrievable token as recited in claim 14 in which a first application which is run in an execution environment can share a function with a second application in another execution environment by allowing the other application to invoke this function and where access conditions (ACLs) are defined in the retrievable token for the second application to access this shared function.

10 20. A retrievable token as recited in claim 14, wherein the retrievable token comprises two applications respectively running under the two different environments and the retrievable token performs said two applications simultaneously.

15 21. A retrievable token as recited in claim 14, wherein it comprises two applications respectively running under the two different environments and the token comprises a communication protocol between said applications in the two execution environments which allows a secure sharing of data and/or functions between the two applications.